OCTOBER 1961
Valid from Serial no. 50.830

Parts-List

and

Trouble Shooting

Vibration Pick-up Preamplifier

Type 1606

Brüel & Kjær

DENMARK

BH 1606

PARTS-LIST 1606

Component Type	Stock Reference	Circuit-diagram Reference
Power cord. Eur.	AN 0005	
Power cord. USA	AN 0006	
Capacitors:		
Electrolytic 4/250	CE 2034	C 5
Electrolytic 16/320	CE 2209	C 7, 14
Metalized paper 250 V 0,5 μF	CP 0003	C 12
Metalized paper 160 V 2 μF	CP 0004	C 13
Paper 5000 V (test) 5 nF	CP 0619	C 15
Polyester 47 nF/125 V	CS 0009	C 6, 11
» 5.6 nF/400 V	CS 0123	C 9
» 22 nF/400 V	CS 0105	C 8
» 220 nF/400 V	CS 0117	C 10
Polystyrene 3 nF	CT 0024	C 3
Polystyrene 5 nF	CT 0026	C 4
Trimmer 3—30 pF	CV 7864	C 1, 2
Miscellaneous:		
Rubber foot	DF 7010	
Foam rubber suspension	DS 0003	
Headphone driving system	HK 2107	
Coaxial jack	JJ 0017	
Coaxial plug	JP 0018	
7-pin plug	JP 0023	
Jack for grounding	JT 6204	
Tube socket	JV 9011	
Attenuator switch	OR 1606	O 1
Integration switch	OS 1606	O 2
Potentiometers:		
Amplitude Adj. 10 kΩ wire	PR 3109	P 1
Sensitivity Adj. 2 MΩ log.	PP 5207	P 2

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PARTS-LIST 1606

Component Type		Stock Reference	Component Type Component Type
Resistors:			
Carbon film ¼ W	100 MΩ	RH 0004	R 4, 5
» » ⅓ W		RK 800 Ω	R 10
» » »		RK 10 kΩ	R 3, 6
» » »		RK 32 kΩ	R 9
» » »		RK 320 kΩ	R 8
» » »		RK 1 MΩ	R 7
» » »		RK 50 kΩ	R 11
» » » *)		RK 50 kΩ	R 12, 14, 17
» » » *)		RK 200 kΩ	R 13, 15, 16
» » 1 W		RK 250 Ω	R 18
Wire wound 5 W 5 kΩ		RO 0205	R 1

*) Theese resistors are selected to compensate deviations from the correct value of the corresponding condensers in the integration networks:
C 8, 10, 12 and C 9, 11, 13.

Miscellaneous:

Bakelite knob	SN 0814	
Bakelite knob for integration switch	SN 0816	

Tubes:

Twin triode 12AT7 (ECC 81)	VA 0009	V 1

Please state type and serial number of apparatus, when spare parts are ordered.

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TROUBLE SHOOTING 1606

Symptom and Condition	Defect	Cure
Amplifier Section:		
Dead.	Main apparatus defective.	See trouble shooting for the respective instrument.
	Tube defective.	Replace.
	Bad connections in cable or 7-pin plug.	Repair.
	C7 or C14 defective.	Replace.
Noise level abnormally high.	Tube defective.	Replace.
Hum level abnormally high. (N.B. The AC power cable should be disconnected when the vibrating table is not in use).	Tube defective. Insufficient filtering of anode or filament supply from main apparatus.	Replace. Repair.
The whole system oscillates at a low frequency.	C14 defective.	Replace.
Vibrating Table.		
Dead.	Head phone driving system defective.	Replace.
	P1 or R1 defective.	Replace.
Maximum amplitude insufficient.	System is not in resonance. The mechanical Q of the support is too low.	Adjust. Place 1606 on soft material and readjust resonance.

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